

INFORMATION DISCLOSURE CITATION <i>(Use Several sheets if necessary)</i> O I P E JUN 23 2003 PTAB EXAMINER REMARKS REF JG95		Docket Number 135992010-045		Application Number 09/990,678			
		Applicant(s) Michael Lindsay Bell et al.					
		Filing Date November 14, 2001			Group Art Unit 1343		
U.S. PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
20	A	5,573,909	12/12/96	Singer et al.	435	6	
1	B	6,027,709	02/22/00	Little et al.	424	1.65	
1	C	6,028,190	02/22/00	Mathies et al.	536	26.6	
2	D	6,130,094	10/10/00	Waggoner et al.	436	63	
2	E	4,772,561	09/20/88	Genshaw	436	169	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
20	L	EP 0 609 894 A2	08/10/94	EPO			YES
20	M	EP 0 670 374 A1	09/06/95	EPO			NO
	N						
	O						
	P						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Q						
	R						
	S						
EXAMINER <i>Q.82</i>			DATE CONSIDERED <i>3-9-04</i>				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Applicant(s) Michael Lindsay Bell et al.					
		Filing Date November 14, 2001		Group Art Unit 1243			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JS</i>	A	5,585,241	12/17/96	Lindmo			
	B	5,571,388	11/5/96	Patonay et al.			
	C	6,159,748	12/12/00	Hechinger			
	D	4,661,913	4/28/87	Wu et al.			
	E	5,162,863	11/10/92	Ito			
	F	4,745,285	5/17/88	Recktenwald et al.			
	G	5,028,545	7/02/91	Soini			
	H	5,880,474	3/9/99	Norton et al.			
	I	5,682,038	10/28/97	Hoffman			
	J	5,627,040	5/6/97	Bierre et al.			
<i>JS</i>	K	5,736,330	4/7/98	Fulton			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
<i>JS</i>	L	WO 99/37814	7/29/99				YES NO
<i>JS</i>	M	WO 99/19515	4/22/99				
<i>JS</i>	N	EP 0 670 374	05/13/98				
<i>JS</i>	O	EP 0 753 584	7/5/96				
<i>JS</i>	P						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JS</i>	Q	Strekowski, Lucjan, <i>Substitution Reactions of a Nucleofugal Group in Heptamethine Cyanine Dyes. Synthesis of an Isothiocyanato Derivative for Labeling of Proteins with a Near-Infrared Chromophore</i> , J. Org. Chem. 57, 4578-4580 (1992)					
<i>JS</i>	R	Slominskii, Y.L., <i>Polymethine Dyes with Hydrocarbon Bridges, Enamino Ketones in the Chemistry of Cyanine Dyes</i> , Journal of Organic Chemistry of the USSR, Vol. 19, No. 10, pp. 2134-2142 (1983)					
<i>JS</i>	S	Strekowski, Lucjan, <i>Facile Derivations of Heptamethine Cyanine Dyes</i> , Synthetic Communications, 22(17), 2593-2598 (1992)					
EXAMINER	<i>JS</i>		DATE CONSIDERED 3-9-04				

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<i>JP</i>	A	2,887,479	5/19/59	Heseltine			
	B	2,895,955	7/21/59	Heseltine et al.			
	C	4,325,706	4/20/82	Gershman et al.			
	D	4,499,052	2/12/85	Fulwyler			
	E	4,729,947	3/8/88	Middendorf et al.			
	F	4,839,265	6/13/99	Ohno et al.			
	G	4,933,269	6/12/90	Parton et al.			
	H	5,037,734	8/6/91	Lenhard et al.			
	I	5,061,618	10/21/91	Parton et al.			
	J	5,207,880	5/4/93	Middendorf et al.			
<i>JP</i>	K	5,268,486	12/7/93	Waggoner et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	L						YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	M						
	N						
	O						
	P						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JP</i>	Q	Slominskii, Y.L., <i>Tricarbocyanines with Hydrogen Rings in the Chromophore</i> , Journal of Organic Chemistry of the USSR, Vol. 40, NO. 6, pp. 625-628 (1974)					
<i>JP</i>	R	Arnold, Z., <i>Synthetic Reactions of Dimethylformamide. XXII. Formation and Preparation of Formyl Derivatives of Indene</i> , Collection Czechoslov. Chem. Commun., Vol. 30, 2783-2792 (1965)					
<i>JP</i>	S	Reynolds, G.A., <i>Stable Heptamethine Pyrylium Dyes That Absorb in the Infrared</i> , J. Org. Chem., Vol. 42, No. 5, 885-888 (1977)					
EXAMINER <i>JP</i>		DATE CONSIDERED 3-9-04					
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<i>P</i>	A	5,312,921	5/17/94	Glazer et al.			
	B	5,321,130	6/14/94	Yue et al.			
	C	5,366,603	11/22/94	Middendorf et al.			
	D	5,375,606	12/27/94	Slezak et al.			
	E	5,410,030	4/25/95	Yue et al.			
	F	5,556,959	9/17/96	Brush et al.			
	G	5,571,388	11/5/96	Patonay et al.			
	H	5,747,349	5/5/98	van den Engh et al.			
	I	5,808,044	9/15/98	Brush et al.			
	J	5,986,086	11/16/99	Brush et al.			
<i>P</i>	K	6,048,982	4/11/00	Waggoner			
<i>P</i>	L	4,882,265	11/21/89	Lagaanis et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	M						YES <input type="checkbox"/> NO <input type="checkbox"/>
	N						
	O						
	P						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>P</i>	O	Sosnovskii, G.M., <i>Synthesis of Meso-Substituted Tricarbocyanine Dyes With An Ortho-Phenylene Bridge In The Chromophore</i> , Journal of Organic Chemistry of the USSR, Vol. 19, No. 10, 1861-1864 (1983)					
<i>P</i>	R	Makin, S.M., <i>Aminoformylation of Unsaturated Aldehydes 2-Alkoxyaldehydes and Their Acetals, and Keytones of the Alicyclic Series</i> , Journal of Organic Chemistry of the USSR, Vol. 13, No. 6, 1093-1096 (1977)					
<i>P</i>	S	Webb, J.P., <i>Sixteen New Infrared Laser Dyes Excited By A Simple Linear Flashlamp</i> , Eastman Organic Chemical Bulletin, Vol. 46, No. 3, 1-6 (1974)					
EXAMINER	<i>J. S.</i>			DATE CONSIDERED			3-9-04
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EXAMINER INITIAL	REF ID: FENT 10	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
28	A	4,973,572	11-27-90	DeBoer			
	B						
	C						
	D						
	E						
	F						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	L						YES NO
	M						
	N						
	O						
	P						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
28	Q	Russian reference by Tolmachev et al. (full cite is in Russian)					
28	R	Narayanan, N., <i>A New Method for the Synthesis for Heptamethine Cyanine Dyes: Synthesis of New Near-Infrared Fluorescent Labels</i> , J. Org. Chem. 60, 2391-2395 (1995)					
28	S	Strekowski, L., <i>Functionalization of Near-Infrared Cyanine Dyes</i> , Heterocyclic Chem., 33, 1685-1688 (1996)					
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FOREIGN PATENT DOCUMENTS							
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M							
N							
O							
P							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>Ps</i>	Q	Narayanan, N., <i>New Near Infrared Dyes for Applications in Bioanalytical Methods</i> , SPIC Vol. 2388, 6-15 (1995)					
<i>Ps</i>	R	Pierce, Brian M., <i>Lasing Properties of Several Near-IR Dyes for a Nitrogen laser-Pumped Dye Laser with an Optical Amplifier</i> , IEEE Journal of Quantum Electronics, Vol. QE-18, No. 7 (1982)					
	S						
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